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CENTRAL INTELLIGENCE AGENCY
INFORMATION FROM
FOREIGN DOCUMENTS OR RADIO BROADCASTS

REPORT

CD NO.

COUNTRY	USSR	DATE OF INFORMATION	1950
SUBJECT	Economic; Technological - Machine tools	DATE DIST.	27 Jun 1950
HOW PUBLISHED	Daily newspapers		
WHERE PUBLISHED	USSR	NO. OF PAGES	3
DATE PUBLISHED	28 Mar - 11 Apr 1950	SUPPLEMENT TO REPORT NO.	
LANGUAGE	Russian		

THIS IS UNEVALUATED INFORMATION

SOURCE Newspapers as indicated.

1,600 MACHINE TOOLS CONVERTED TO HIGH-SPEED CUTTING IN 1949

MINISTER REPORTS ON LABOR RESERVE WORK -- Komsomol'skaya Pravda, No 74, 28 Mar 50

Active workers of the Ministry of Labor Reserves held their annual conference on 27 March in Moscow. Administration chiefs, directors of training institutions, and senior foremen from Belorussia, Latvia, Estonia, Georgia, Moldavia, Stalingrad, Gor'kiy, and other regions of the country attended the meeting to hear the results of the past year's activities in the field of labor reserves. In his address to the conference, Minister of Labor Reserves V. P. Pronin said that thousands of training shops, sections, and benches had been established, and more than 600 study rooms set up. Over 1,600 metal-cutting machine tools have been converted to high-speed operation.

DEVELOP NEW CHROME BEARING SURFACE -- Kommunist Tadzhikstana, No 66, 2 Apr 50

Attempting to increase the durability of machine parts, engineers have been chrome plating them for a long time. However, a chrome-plated surface does not retain sufficient lubricant to protect the friction surface of the part from rapid wear. The surface had to be made with micropores or microcanals in which the lubricating compound would be absorbed to the utmost and would be distributed over the entire metal surface.

Engineers L. Ya. Bogarad and E. L. Gokman of the laboratory of the Leningrad Affiliate of the Scientific-Research Planning Institute of the Ministry of Transport-Machine Building have succeeded in developing a method for obtaining such canals. At the same time, they found a way to control the quality of porous chrome.

These new methods prolong the life of parts many times. They are extremely important in modernizing machine tools for high-speed metalworking.

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CONVERT MACHINE TOOLS TO HIGH-SPEED CUTTING -- Leninskoye Znamya, No 68, 4 Apr 50

Machine tools are being made suitable for high-speed cutting at the Gor'kiy Milling Machine Plant by increasing rigidity, improving controls which decrease the time required for auxiliary operations, and increasing speeds, which in a number of cases has raised labor productivity 150 percent. Making the machines automatic has facilitated mastery of their operation by workers, and special features of their design have made possible multi-machine-tool servicing.

NEW LATHE HAS AUTOMATIC ADJUSTMENT -- Kommunist Tadzhikistana, No 71, 9 Apr 50

A new high-duty lathe with automatic controls has been built at the Moscow Krasnyy proletariy Plant. Designed by Chief Technologist B. A. Shchukarev and Engineers B. I. Zver'kov and E. L. Zalit, the lathe has been set up in I. T. Belov's section.

The instrument for automatic adjusting of the machine during machining of graduated shafts makes possible the servicing of several machines at the same time. It increases the lathe operator's productivity 2½ times. The part which has been machined by the new method undergoes grinding immediately.

ATTACHMENT CHECKS WORK DURING MACHINING -- Komsomol'skaya Pravda, No 75, 29 Mar 50

A lathe operator at the Saratov Machinery Plant of the Ministry of State Farms RSFSR has developed a device for measuring bushings for an oil engine. During boring, this part requires particularly careful measuring. Previously, the machine tool had to be stopped several times in order to measure the part. This attachment permits checking while the machine is in operation.

NEW LATHE CUTS METAL AT RATE OF 1,250 METERS PER MINUTE -- Leninskoye Znamya, No 65, 29 Mar 50

A new lathe produced by the Krasnyy proletariy Plant has recently been installed at the Moscow Grinder Plant. This lathe excels any other existing machine of this type. P. B. Bykov, who operates this machine tool, brought the rate of spindle revolution to 2,000 per minute and the speed of cutting metal to 1,250 meters per minute.

Moskovskaya Pravda, No 33, 29 Mar 50

The new lathe recently installed at the Moscow Grinder Plant is completely automatic, except for inserting the blank and removing the finished part.

DECREASE SPECIFIED TOLERANCES FOR MICROMETERS -- Moskovskaya Pravda, No 33, 29 Mar 50

Vernier cylinders for micrometers are being turned at the Kalibr Plant to closer tolerances than specified in drawings. As a result, the amount of subsequent grinding is decreased, freeing one worker from grinding operations and also decreasing the consumption of abrasives and electric power.

Parts are being produced at a precision of 5 microns instead of 10 microns as permitted by technical specifications.

50X1-HUM

USE SCRAP TO SAVE METAL -- Vechernyaya Moskva, No 86, 11 Apr 50

Personnel of the Moscow Machine-Tool Plant imeni Ordzhonikidze are striving to exceed their April obligations. Their goal is to produce six special combination machine tools and to perfect the production of new machine tools.

Personnel of the forge shop have resolved to save 8 tons of metal this month by utilizing scrap.

DESIGN SPECIAL GEAR HOBS -- Moskovskaya Pravda, No 44, 11 Apr 50

At the Frezer Plant, Stalin prize winner Semenov is completing tests on a new marking apparatus for threading dies. Prize winner Kartsev has designed a special gear hob which will be tested within the next few days.

NEW PORTABLE BORING MACHINES -- Sovetskaya Kirgiziya, No 66, 2 Apr 50

The first series of new-design portable boring machines have been assembled at the Leningrad Plant imeni Sverdlov. They are small and light in weight, and are intended for machining large parts in heavy machine building.

Portable panels have been manufactured, by means of which remote electric control of the new machine-tool operation is accomplished.

NEED OVERTIME TO MEET NORMS -- Trud, No 79, 2 Apr 50

On the surface, the Saratov Gear-Shaper Plant is doing well. However, there are many deficiencies in its work. Its operation is spasmodic and it does not produce according to schedule. Overtime, in excess of that planned, had to be put in, in an effort to meet norms.

Machine-tool standstill comprised 34 percent of the calendar time during January. Nearly 10 percent of the workers did not fulfill their norms, and those who did, did not work at an even pace.

MAKES ANNIVERSARY PLEDGES -- Kommunist, No 86, 11 Apr 50

The Yerevan Plant imeni S. M. Kirov has made the following pledges, to be fulfilled by 29 November 1950, the 30th anniversary of the establishment of the Soviet government in Armenia:

To decrease the consumption of basic raw material 9 percent, assuring 10-percent excess of the year plan in basic products without additional expenditure of raw material.

To save 1,250,000 kilowatt-hours of electric power and 500 tons of fuel in one year. To produce 99 percent first-class products. To decrease the cost of basic products 10 percent below 1949. To increase labor productivity 10 percent above plan. To make 8 million rubles above-plan accumulation in profits. In the second half of the year, to perfect the production of new products. By the end of the first 6 months, to bring the plant capacity up to plan and to exceed the plan 5 percent by the end of the year. To train 465 workers, engineers, and technicians.

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